BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

Estimate Cost Rs. 25.00 Lakhs

Name of Work:-Improvements to drains and asphalting to Someshwaranagara temple 3rd B Main cross roads in ward:04

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
1	KSRRB 300-1,Earth work excavation by manual means in ordinary soil invlving an average horizontal throw up to 2 meters and an average lift uo to 1.5m,excavated surface levelled and sides neatly dresssed, the disposed earth to be levelled neatly after breaking of clods complete as per specifications (Item no19.1,Page no 138, PWD SR 2014-15)	Cum							
	Removal of silt in 7th cross		2	110.00	0.50	0.45	49.50		
	Berm cutting		1	110.00	0.75	0.15	12.38		
			1	110.00	0.60	0.15	9.90		
	Removal of silt in 8th cross		2	102.00	0.50	0.40	40.80		
	Berm cutting		1	102.00	0.90	0.15	13.77		
			1	102.00	0.60	0.20	12.24		
	Someshwaranagara 3rd phase area		2	125.00	0.45	0.45	50.63		
			2	190.00	0.50	0.45	85.50		
			2	278.00	0.50	0.35	97.30		
			2	350.00	0.50	0.40	140.00		
	Berm cutting		2	125.00	0.60	0.20	30.00		
	Someshwaranagara 3rd phase area		2	190.00	0.75	0.15	42.75		
			2	278.00	0.55	0.15	45.87		
			2	350.00	0.65	0.15	68.25		
	Concrete road		1	22.00	1.20	0.15	3.96		
							702.84	**75.60**	**53134.70**
	Basic Rate	70.00							
	Area Weightage @ 8%	5.60							
	Total	**75.60**							
2	KSRB 2-2.2 : Earth work excavation for foundation of buildings, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in hard soil not exceeding 1.5m, in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50m. specification, specification. No. KBS 2.1(b) / 2.3.5, No. 5/ Item No. 2.4/ PWD SR 2014-15	Cum							
	Drain		2	102.00	1.00	0.75	153.00		
	Sanitary cut portion 3rd B Main		1	120.00	1.65	0.20	39.60		
	7th cross		1	110.00	1.50	0.25	41.25		
	8th cross		1	102.00	0.90	0.25	22.95		
	Deductions for Drain portion desilting qty						**256.80**		
	Removal of silt in 8th cross		2	102.00	0.50	0.40	40.80		
	Basic Rate	245.00					**216.00**	**264.60**	**57153.60**

	Area Weightage @ 8%	19.60							
	Total	**264.60**							
3	Removing B.S slab of drain and stacking	sqm							
	Someshwaranagara 3rd phase area		2	125.00	1.65		412.50		
							412.50		
	Covering slabs in front of house portions		13	12.00	1.00		156.00		
			11	9.00	1.00		99.00		
			5	6.00	1.00		30.00		
			8	5.00	1.00		40.00		
			3	10.00	1.00		30.00		
			2	8.50	1.00		17.00		
			9	3.50	1.00		31.50		
			6	10.50	1.00		63.00		
			12	7.00	1.00		84.00		
							963.00		
		Deduct 30%of Missing slabs qty					123.75		
							839.25	58.32	**48945.00**
	Basic Rate	54.00							
	Area Weightage @ 8%	4.32							
	Total	**58.32**							
4	Refixing stone slabs of drains and pointing in CM(1:3)	Sqm							
			Vide Item No. 3				**839.25**	75.60	**63447.00**
	Basic Rate	70.00							
	Area Weightage @ 8%	5.60							
	Total	**75.60**							
5	Providing granite slabs of selected quality roughly dressed and fixed in cement mortar (1:6) including fixing curing etc., complete do **7.5 cms** thick	sqm							
		30% of Missing slabs qty					**123.75**	**639.36**	**79121.00**
	Basic Rate	592.00							
	Area Weightage @ 8%	47.36							
	Total	**639.36**							
6	KSRB 4-1.3:Providing and laying in position plain cement concrete of mix 1:4:8 with OPC cement @180kgs. with 40mm and down size graded granite metal coarse aggregates @0.85cum and fine aggregates @0.57cum machine mixed,machine mixed.concrete laid in layers not exceeding 15cms.thick. well compacted in foundation,including cost of all materials,labour,HOM of machinery,curing complete as per specifications.Specification no KBS4.1,4.2(Item no4.3,Page no12,PWD SR 2014-15)	Cum							
	Drain		2	102.00	0.90	0.15	27.54		
	Concrete road		1	22.00	1.20	0.15	3.96		
	Basic Rate	4488.00					**31.50**	**4847.04**	**152682.00**
	Area Weightage @ 8%	359.04							

	Total	4847.04							
	KSRB 4.2.2 : Providing and laying in position Reinforced cement concrete of design mix M20 with OPC cement @ 320kgs, with 20mm and down size graded granite metal coarse aggregates @0.69cum and fine aggregates @0.460cum with super plasterise @ 3lts conforming etc as per specification&direction of the engineer incharge of work(pwd sr2014-15,p.no13,sno4.11)	Cum							
	Drain bottom concrete		2	102.00	0.90	0.10	18.36		
	Side walls		4	102.00	0.10	0.60	24.48		
							42.84	6065.28	259837.00
	Basic rate	5616.00							
	Add 8% AW	449.28							
	Total	**6065.28**							
8	KSRB 4.9.2: Providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per specifications.Specification noKBS 4.6.3,TMT bars Fe550(pwd sr 2014-15,p.no17,s.no 4.46)	Qtl							
	For culvert 0.75 kg / cum						**32.13**		
							32.13	7905.60	254007.00
	Basic rate	7320.00							
	Add 8% AW	585.60							
	Total	**7905.60**							
9	KSRB 4-6.4 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for vertical surface such as walls at any thickness, attached pilasters,bittresses,buttresses plinth and string course including cost of all materials,labour complete asperspecification. Specification no.KBS 4.6.2 (pwd sr2014-15,p.no15/4.31)	Sqm							
	Side walls		8	102.00		0.60	489.60		
							489.60	292.68	143296.00
	Basic rate	271.00							
	Add 8% AW	21.68							
	Total	292.68							

10	KSRRB 4.1:5Providing and laying in position plain **cement concrete mix M20** with ope cement @300kgs.with 20mm and down size graded granite metal coarse aggregates @0.69 cum and fine aggregates @0.43cum. with superplastisiser @3lts confirming to IS 9103-1999 reaffirmed-2008, machine mixed, concrete laid in layers not exceeding 15cms thick well compacted,in foundation,plinth and cills,including cost of all materials, labour, HOM of machineries, curing complete as per specifications. Specification no 4.1.4.2 **(Page.12 & Item No. 4.5)**	Cum							
	Road		1	22.00	1.20	0.10	2.64		
							2.64	**5852.52**	**15450.65**
	Basic Rate	5419.00							
	Area Weightage @ 8%	433.52							
	Total	**5852.52**							
11	Vaccum de-watering with vaccum pump and suction mat and compaction with skin floater clubbed with floating disc including cost of generator,HOM of machinery screed vibratory,power floater,blade and disk etc.,with all lead and lift etc as per specifications .(P.NO171/22.7)	**Sqm**							
	Road concrete		1	22.00	1.20		26.40		
							26.40	**97.20**	**2566.00**
	Basic Rate	90.00							
	Area Weightage @ 8%	7.20							
	Total	**97.20**							
12	Providing groove cutting for width of 5mm to 10mm and depth 80mm-100mm including cost of cutting machine.generator&HOM of machinery,including cost of blade,coolant etc as per specifications as per specifications.(p.no172/22.80)	**Rmtr**							
	Road		1	1.20			1.20		
							1.20	124.20	149.00
	Basic Rate	115.00							
	Area Weightage @ 8%	9.20							
	Total	**124.20**							
13	KSRB 500-2 Cleaning the existing black topped surface with brooms, soft brushes and finally dusting with old gunny bags and /or compressed air to receive bituminous treatment including cost of all materials, labour, HOM of machineries complete as per specifications. MORTH specification clause 501	Sqm							
	7th cross		1	110.00	3.80		418.00		

	8th cross		1	102.00	3.75		382.50		
	Sanitary cut portion 3rd B Main		1	120.00	1.50		180.00		
							980.50	**3.02**	**2965.00**
	Basic rate	2.80							
	Add 8% AW	0.22							
	Total	**3.02**							
14	KSRRB M400-17: Providing, laying, spreading and compacting graded stone aggregate to wet mix **macadam** specification including premixing the Material with water at OMC in mechanical mix plant carriage of mixed Material by tipper to site, laying in uniform layers with paver in sub-base / base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications. MORTH Specification: 406 (PWD SR 2014-15 P.N.154 & 20.18)	**Cum**							
	Sanitary cut portion:-7th cross		1	110.00	1.00	0.15	16.50		
	Sides		1	110.00	0.60	0.15	9.90		
			1	110.00	0.75	0.15	12.38		
	Sanitary cut portion:-8th cross		1	102.00	0.90	0.20	18.36		
	Sides		1	102.00	0.90	0.15	13.77		
			1	102.00	0.60	0.15	9.18		
	Sanitary cut portion 3rd B Main		1	120.00	1.50	0.15	27.00		
	Pot holes in Someshwaranagara ,chikka bommasandra,judicial layout,A Sector,B Sector		27	0.80	0.70	0.15	2.27		
			20	2.00	1.90	0.15	11.40		
			40	2.40	1.80	0.15	25.92		
	Road cuttings		6	5.00	0.50	0.15	2.25		
			5	4.80	0.45	0.20	2.16		
							151.08	**1438.56**	**217342.00**
	Basic rate	1332.00							
	Add 8% AW	106.56							
	Total	**1438.56**							
15	KSRRB M500-6,Providing and applying primer coat with S.S.bitumen emulsion on prepared surface of granular base such as WBM,WMM including cleaning of road surfase and spraying primer at the rate of .60kg/Sqm using mechanical means complete as per specifications. MORTH Specifications No502 (ITEMNO21.6,Page no157,PWD SR 2014-15)	Sqm							
	7th cross		1	110.00	4.50		495.00		
	8th cross		1	102.00	5.50		561.00		
	Sanitary cut portion 3rd B Main		1	120.00	1.50		180.00		
	Pot holes in Someshwaranagara ,chikka bommasandra,judicial layout,A Sector,B Sector		27	0.80	0.70		15.12		
			20	2.00	1.90		76.00		
			40	2.40	1.80		172.80		

	Road cuttings		6	5.00	0.50		15.00		
			5	4.80	0.45		10.80		
	Basic rate	32.60					1499.92	35.21	52809.00
	Add 8% AW	2.61							
	Total	**35.21**							
16	KSRB M500-13: Providing and laying bituminos macadam 50mm thick with 100-120 TPH hot mix plant producing an average out of 75 tonnes per hour using crushed aggregates of specified grading premixed with bitiminous binder, transported to site, laid over a prevuiusky prepared syrface with paver finisher to the required grade, level and alignament and rolled as per clauses 501.6 and 501.7 to achive the desired cinpactuib complete as per specifications. Mother specification No.504. 50-75mm compacted thickness(grading II) with 3.3% bitumen(P-159, It.21.17.2)	Cum							
	Sanitary cut portion 3rd B Main		1	120.00	1.55	0.05	9.30		
							9.30	**9262.08**	**86137.00**
	Basic rate	8576.00							
	Add 8% AW	686.08							
	Total	**9262.08**							
17	KSRB 500-10:Tack coat:Providing and applying tack coat with bitumen emulsion pressure distributor at the rate of 0.20 kg per sqm on the prepared bituminous/granular surface cleaned with mechanical broom, complete as per specifications. MORTH specification No.503 using bitumen emulsion (P-158.It.21.10.1)	Sqm							
	Sanitary cut portion 3rd B Main		1	120.00	1.60		192.00		
							192.00	**14.59**	**2801.00**
	Basic rate	13.51							
	Add 8% AW	1.08							
	Total	**14.59**							

18	KSRRB M500-18.Providing and laying semi dense bituminous concrete using crushed aggregates of specified grading,premixed with bituminous binder and filler, transporting the hot mix to work site.laying with a paver finisher to the required grade,levell and alignment, rolling withs mooth wheeled,vibratoryandtandemrollers to achievethe desired compactiona sperMORTHSpecificationclauseno508completein allrespectscompleteasperspecifications.using40-60 TPH capacity HMP with mechanical pavour grading -II (25-30mm) with 5% CRMB 55 grade (Itemno 21.21.5 Pageno 160 2014-15)	Cum							
	7th cross		1	110.00	4.50	0.030	14.85		
	8th cross		1	102.00	5.50	0.030	16.83		
	Sanitary cut portion 3rd B Main		1	120.00	1.60	0.030	5.76		
	Pot holes in Someshwaranagara ,chikka bommasandra,judicial layout,A Sector,B Sector		27	0.90	0.80	0.030	0.58		
			20	3.00	2.00	0.030	3.60		
			40	2.50	2.00	0.030	6.00		
	Road cuttings		6	5.00	0.60	0.030	0.54		
			5	4.80	0.50	0.030	0.36		
							48.52	**9998.64**	**485166.00**
	Basic rate	9258.00							
	Add 8% AW	740.64							
	Total	**9998.64**							
19	Providing and fixing Precast RCC Slabs as Per approved design, specification and Direction Engineer-in-Charge. (Approved Data Rate).	Sqm							
	Drain covering slabs		2	102.00	0.90		183.60		
							183.60		
		Deduct for 30%of Missing slabs					55.08		
							128.52		
							128.52	**1498.00**	**192522.96**
20	KSRRB M100-1 Loading and un loading of stone boulder/Stone aggregates/ sand/kanker/ Moorum. KSRRB M100-1:Placing tipper at loading point,loading with front end loader,dumping,turning for return trip,excluding time for haulage and return trip complete as per specifications(Item no17.1,Page no 130, PWD SR 2014-15)	Cum							
	Basic Rate	63.00	Vide Item No. 1+2				**918.84**	**68.04**	**62518.00**
	Area Weightage @ 8%	5.04							
	Total	**68.04**							
								TOTAL	2232050.00
	KRIDL Charges 11%								245526.00
	Quality Control charges 1%								22321.00

11	Miscellaneous charges	L/S							559.10
								Total RS	2500000.00
(Rupees twenty five lakhs only)									

Certificate:-

1 The work spot has been inspected and the work is found neccessary.
2 This estimate is prepared as per C.S.R. of 2014-15
3 The provisions were made in this estimate are necessary and adequate.
4 This works come under B.B.M.P. limits.

Assistant Engineer
Ward no: 04

Assistant Executive Engineer
Yelahanka New town Sub Division
Bangalore-64

Executive Engineer
Yelahanka Division
Bangalore-64

Sanction for Rs.....
Administrative Approval
Accorded for Rs 25.00 lakhs
is accorded under head.....
P-2415
registered as CE No. 126 DH: DIG 2015 Subject
to Conditions contained in enclosed memo
No...../.....Dt.....
AE/JE TA SE (BTP) CE (BTP)
(YNK)

Sanction for Rs.....
Technical Sanction
Accorded for Rs 25.00 Lakhs
is accorded under head.....
P-2415
registered as CE No. 92 DH: 10/02-15 Subject
to Conditions contained in enclosed memo
No...../.....Dt.....
AE/JE TA SE (BTP) CE (BTP)
(YNK)